

NAME _____

Final Test Chapters 1-6

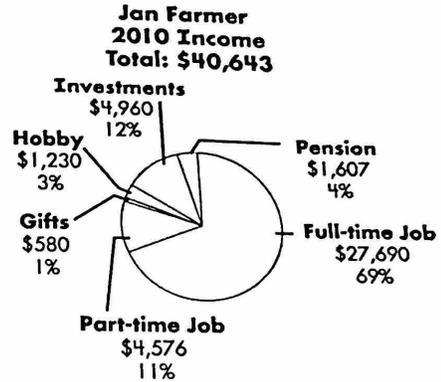
Refer to the circle graph to answer the questions.

33. What does the graph show?

Jan Farmer 2010 income

34. What is Jan's greatest source of income?

her full job



Refer to the line graph to answer the questions.

35. What does the graph show? her

Income expenses and savings

36. In which year did expenses equal income? 2007-2011

2008

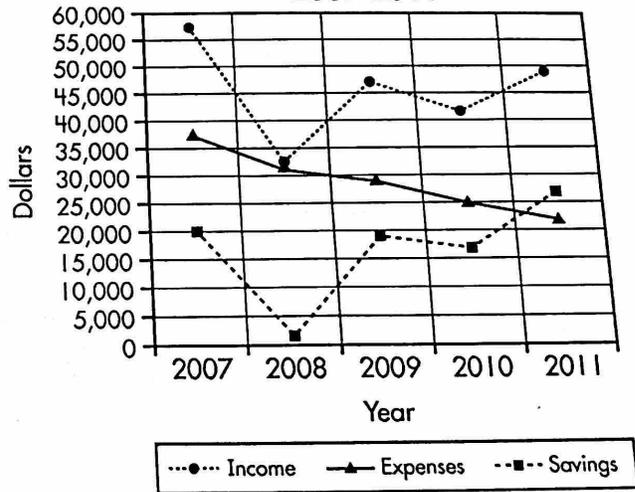
37. In which year were savings greater than expenses?

2011

38. In which years did expenses decline from the previous year?

2008-2011

**Jan Farmer
Income, Expenses, and Savings
2007-2011**



Read each question and write *statistical* or *not statistical*.

39. How many students passed? statistical

40. What is the average fee paid? statistical

41. How much do these sandals cost? not

42. Who is the tallest in the class? statistical

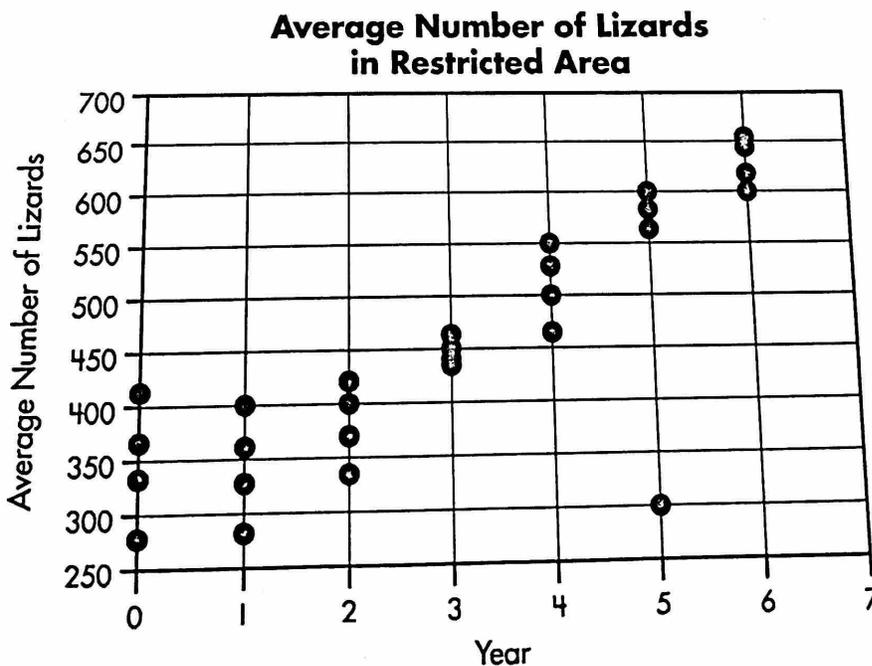
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Tell if each sample would be considered *random* or *biased*.

- 43. Surveying women in a yoga class about the benefits of taking yoga. biased
- 44. Asking a class of law students to give opinions about the state of the legal industry.
biased
- 45. Every 10th student that enters a school cafeteria is asked to reveal their favorite beverage for lunch random

Biologists were concerned about the declining population of a rare lizard, so they restricted human access to the lizard breeding area. The biologists then collected population data for 6 years. Refer to the scatter plot to answer the questions.

- 46. In which year did limiting human access to the area begin to affect the lizard population?
2 year
- 47. The outlier appears at (circle the correct answer): (0, 400) (6, 650) **(5, 300)**
- 48. Does the scatter plot show a positive correlation, a negative correlation, or no correlation?
positive



12

NAME _____

Per _____
When _____

Final Test Chapters 1-6

Solve the problems below. Express probability as a fraction in simplest terms.

49. Darleen uses a random number generator on the Internet to simulate rolling a die 60 times. She generates 60 random numbers from 1 to 6 inclusive to represent the numbers on a die. The numbers Darleen generates are shown below.

1	1	5	6	2	6	3	5	6	2
6	1	3	1	5	1	1	4	2	4
1	4	4	2	2	2	1	1	1	2
3	6	5	3	4	4	6	5	3	1
4	5	2	2	6	3	3	4	6	4
3	3	2	5	2	2	5	1	2	5

Based on the results of the simulation, what is the probability of rolling an even number?

50. A charity contacted 70 people by phone and 150 people by email. Donations were made by 20% of the people contacted by email. Donations were not made by 38 people who were contacted by phone. Make a two-way table with the categories *method of contact* and *donations*.

Solve the problems below. Express probability as a fraction in simplest terms.

At a high school, 400 juniors and seniors are surveyed to see whether they are in a club or not. There is a total of 220 juniors and seniors that are in a club and 210 juniors that are surveyed. The number of juniors in a club is 150.

51. Make a two-way relative frequency table for the data.

	club	No club	total
Juniors	150	60	210
Seniors	70	120	190
total	220	180	400

52. What is the probability that a senior is in a club? $\frac{7}{19}$